CLAIMS

- 1. An SC cut crystal resonator, wherein a surface of a quartz crystal orthogonal to a Y axis thereof is rotated through 33° to 35° about an X axis, and is then rotated from this rotated position through 22° to 24° about a Z axis, and a slender quartz crystal blank oblong in an X' axis direction is cut from the rotated surface, and an end surface of said quartz crystal blank orthogonal to a Z' axis, has a tilt angle tilted in a direction rotated through a predetermined angle about the X' axis.
- 10 2. An SC cut crystal resonator according to claim 1, wherein said tilt angle is between +7° and +13°.
 - 3. An SC cut crystal resonator according to claim 1, wherein said tilt angle is between -7° and -13°.

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- 4. An SC cut crystal resonator according to claim 1, wherein said tilt angle is between -9° and -11°.
- 5. An SC cut crystal resonator according to claim 1, wherein said tilt angle is between +9° and +11°.